

PATENT  
Reply under 37 CFR 1.116  
EXPEDITED PROCEDURE  
Group 2862

AMENDMENT(S) TO THE CLAIMS

1-3 (cancelled)

4. (withdrawn) The position sensor of claim 1, wherein said ferrous plate varies in at least one of width, thickness and shape.

5. (previously presented) A position sensor for sensing linear or radial position, comprising:

at least four magnets, each of said at least four magnets producing a magnetic flux;

a first ferrous plate including a first side and a second side, said first ferrous plate having  
5 two of said at least four magnets located along said first side at spaced locations along said first ferrous plate, said two magnets being oriented such that a north pole of one of said two magnets is directed toward said first ferrous plate and a south pole of an other of said two magnets is directed toward said first ferrous plate;

a second ferrous plate including a first side and a second side, said second ferrous plate  
10 having an other two of said at least four magnets located along said first side at spaced locations along said second ferrous plate, said two magnets being oriented such that a north pole of one of said two magnets is directed toward said second ferrous plate and a south pole of an other of said two magnets is directed toward said second ferrous plate, said first ferrous plate and said second ferrous plate being generally parallel and spaced apart; and

15 at least one magnetic flux responsive device disposed between said second side of said first ferrous plate and said second side of said second ferrous plate, said at least one magnetic flux

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